

**Claims**

1. A reamer assembly (11) for widening a drilled pilot hole or for widening a hole that has been widened in a first step  
5 in a down-the-hole drilling operation, wherein the reamer assembly includes a shank (14) for attachment of the reamer to the end of a down-the-hole hammer drill and a conical drill bit or crown (15), c h a r a c t e r i s e d in that the conical bit (15) of the reamer is divided into at least  
10 three segments (18) which are terminated with a transverse end surface (21) which directly connects said conical segments; and in that at least three of said segments (18) include drill buttons (16) that are disposed equidistantly from the centre axis of the drill bit.
- 15 2. A reamer assembly according to Claim 1, c h a r a c t e r i s e d in that each segment (18) includes a plurality of drill buttons (16a - 16e).
- 20 3. A reamer assembly according to Claim 2, c h a r a c t e r i s e d in that the drill buttons (16a - 16e) are placed in mutually the same pattern in each of said segments (18).
- 25 4. A reamer assembly according to Claim 2 or 3, c h a r a c t e r i s e d in that a plurality of drill buttons (16) in one and the same segment are disposed equidistantly from the centre of the drill bit (15).
- 30 5. A reamer assembly according to any one of the preceding Claims, c h a r a c t e r i s e d in that the drill buttons (16a - 16e) of one segment are disposed so as to lie close to

or to slightly overlap each other in a common plane projection. (Fig. 3).

6. A reamer assembly according to any one of the preceding  
5 Claims, characterised in that drill buttons  
(22) are provided in the transverse end surface (21) of the  
drill bit (15).